

MAILMAN PATCH XM*7.1*50 DESCRIPTION

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Department of Veterans Affairs VISTA Software Development Infrastructure Product Line

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Patch XM*7.1*50 contains many changes, changes which are in response to 65 NOIS (56 distinct defects), 47 E3R (40 distinct suggestions), and to perceived opportunities for improvement.

Changes in Response to NOIS

(Listed: 1. alphabetically, 2. in month/year order, and 3. in numeric order)

NOIS ALB-0795-51873

Problem: Site is using a combination of APIs KLQ^XMA1B and S2^XMA1B to move messages

from one basket to another, and finds the documentation lacking.

Resolution: New "save messages" API, MOVEMSG^XMXAPI, makes task easier.

NOIS ALL-0297-41999, BTM-1095-10195, CIH-1197-40757

Problem: Sites have merged, or changed their names, or both, yet they cannot change their

MailMan site names to their new names or switch from ".VA.GOV" to

".MED.VA.GOV", because MailMan code can't handle it.

Resolution: Problem fixed. Updated MailMan code can handle site name changes and maintain

message threading. This patch will add the new names as synonyms to the current names. Patch XM*7.1*51, to be released after all sites have installed this patch, will perform the

actual name change.

NOIS ANC-0699-52725

Problem: When using the option to terminate a user (XMMGR-TERMINATE-ONE), an error

occurs if a bulletin is triggered.

Resolution: Problem fixed.

NOIS ANN-0797-42370

Revision Date: 01/13/05

Problem: API WHO^XMA21 does not properly handle deleting users from recipient list, nor does

it properly add remote recipients.

Resolution: Problem fixed. New API, TOWHOM^XMXAPI, also may be used.

NOIS AUG-0596-32196

Problem: When doing a "QD" on a local message, MailMan does not show "forwarded by:" if the

sender of the message is the one who forwarded it, leaving one to infer the forwarder.

Resolution: Infer no more! MailMan now tracks and displays the forwarder of all forwarded

messages, even if the sender is the forwarder.

NOIS BHH-0297-41710

Problem: In SHARED, MAIL, if one user resequences a basket, another user accessing the same

basket at the same time might be told (erroneously) that there are no messages in the

basket, and asked should the basket be deleted?

Resolution: Problem fixed. MailMan no longer kills the basket's message index before sequencing.

NOIS BHH-0398-40149

Problem: If a user's institution is null, then () is sometimes displayed after the user's name.

Resolution: Problem fixed. MailMan no longer displays () if the institution is null.

NOIS BHH-1298-41690

Problem: If a user tries to edit a message in a basket whose IEN > 1000, MailMan thinks the basket

is a remote message queue and asks the user whether the message should go to the head

of the queue or not.

Resolution: Problem fixed. MailMan no longer thinks it's a message queue.

NOIS BRX-1095-11209

Problem: When a message is forwarded from Site A to Site B, the recipient at Site B has no way of

knowing who at Site A forwarded it.

Resolution: This information is now captured, and available (via QD).

NOIS BRX-0397-11363

Problem: When a user picks a basket by its IEN, VA FileMan always asks "OK?". This was

introduced by a VA FileMan patch, but it is annoying.

Resolution: User will no longer be able to pick a basket by just its IEN. Instead, the user will have to

precede the IEN by accent grave.

NOIS BRX-0897-12178, MAD-0298-40838

Problem: Under certain conditions, MailMan aborts when a user copies a new message with

responses.

Resolution: Problem fixed.

NOIS BRX-0997-10675, REN-1298-61735

Problem: If a mail group contains a "circular" reference, MailMan bombs when expanding the

group, as it tries to follow an infinite loop.

Resolution: MailMan now recognizes and ignores "circular" references in mail groups, and gives an

appropriate warning to the user.

NOIS BRX-1297-10085

Problem: Sometimes, when a user sends a message to a large mail group, the message is delivered

"new" to the user.

Resolution: Anomaly corrected.

NOIS BRX-0598-10262

Problem: During a QD of a message, MailMan does not report that a surrogate of a user has read

the message.

Resolution: Problem corrected.

NOIS CAN-1298-10722

Problem: Routine 'XMAPHOST does not "new" a variable which it uses, and consequently

"clobbers" that same variable used by a calling routine.

Resolution: Problem corrected.

NOIS CHS-0699-40357

Revision Date: 01/13/05

Problem: MailMan does not close the print device after printing all new messages.

Resolution: MailMan now closes the print device when it's finished printing all new messages.

NOIS CLA-0296-21352

Problem: Call to send message using ^XMD results in message being sent to XMDUZ, too, even

though XMDUZ is not part of the XMY array.

Resolution: New "send message" API, SENDMSG^XMXAPI, fixes problem and provides more

functionality.

NOIS CMO-0697-40078

Problem: Site noticed that even though the DD for Field #1, FROM, in File #3.9 shows a "C"

cross-reference, there are no "C" cross-references being created.

Resolution: "C" cross-reference deleted on File #3.9, Field #1, FROM, because it is neither used, nor

needed. (This cross-reference was not being created because VA FileMan was not being used to create records. With this patch, however, MailMan will be using a lot more of VA

FileMan, and the files will more closely match their DDs.)

NOIS DAY-0797-42149

Problem: MailMan goes into an infinite loop if it tries to print a message to a device whose IOM is

less than 2. This is caused by MailMan writing no more than IOM-1 characters per line, and splitting up longer lines over several writes, with intervening carriage returns.

Resolution: MailMan ignores IOM if it is less than 2, and writes out the whole line at once to the

device.

NOIS DAY-0398-42506

Problem: API \$\$MG^XMBGRP does not return a "failure" code when all prospective mail group

members are rejected.

Resolution: It does now.

NOIS DMA-1198-N1103

Problem: Message IDs from remote, non-VA, sites can exceed 64 characters. MailMan's message

index (the "AI" cross-reference) can only handle message IDs up to 64 characters in

length. This can cause responses to be attached to the wrong messages.

Resolution: MailMan can now handle longer message IDs, thus, increasing the accuracy of its

message index and greatly reducing the possibility of responses being attached to the

wrong message. The format of the "AI" cross-reference has changed:

From: ^XMBX(3.9, "AI", site@msgid, xmz)=fm date/time

To: ^XMBX(3.9, "AI", site, msgid, xmz)=fm date

NOIS DUB-0994-30208

Problem: Option XMMGR-DISK-MANY-MESSAGE-MAINT is not queueable.

Resolution: It is now.

NOIS HIN-0497-42865

Problem: When mail groups are addressed, their LAST REFERENCED date and REFERENCE

COUNT fields are updated, but those of their member groups are not.

Resolution: They are now.

NOIS HIN-1097-41350

Problem: Inactive users who are members of mail groups receive mail when they shouldn't.

Resolution: Local users who are mail group members must have a mailbox and an access code in

order to receive mail.

NOIS HIN-1097-41360

Revision Date: 01/13/05

Problem: Message numbers are defined in the MESSAGE file (#3.9) to be up to nine digits long.

Message numbers already exist which are longer than that.

Resolution: Message numbers can now be up to 15 digits long.

NOIS HIN-0499-41599, TAM-0499-32398

Problem: When DUZ is zero, ^XMD sometimes aborts.

Resolution: When DUZ is zero or undefined, 'XMD will assume Postmaster.

NOIS HOU-0997-72287

Problem: MailMan's failure to "new" a variable causes call to ^DIR to give false default.

Resolution: Problem corrected.

NOIS HOU-0199-72729

Problem: Under some circumstances, MailMan may attempt to use an out-of-service script when

sending messages to a remote site.

Resolution: MailMan will now only use an out-of-service script if the user specifically selects it.

NOIS HUN-0299-20563

Problem: MailMan locks inappropriate node, which, in this situation, caused total user lockout.

Resolution: MailMan no longer locks inappropriate node.

NOIS IND-1097-41592

Problem: The message reply API, \$\$ENT^XMA2R, does not accept a global reference as the body

of the reply.

Resolution: The new message reply API, REPLYMSG^XMXAPI, does.

NOIS IOW-0598-41181

Problem: "Later" a message does not accept a date in the format: **mmdd**.

Resolution: It does now.

NOIS ISW-1296-20406

Problem: When XMY(G.mail group) is used as input to ^XMB (to send a bulletin to the mail

group), G.mail group (unexpanded) is placed in the recipient multiple. Subsequent "QD"

shows "G.mail group Not read".

Resolution: MailMan now expands the mail group.

NOIS ISW-0197-20394

Problem: When a user forwards a message to a remote site, which had already been sent to that site

and subsequently purged at that site, the message is rejected (duplicate – purged), but the

user isn't notified.

Resolution: MailMan now sends the user an appropriate error message.

NOIS IVM-0197-31493

Problem: MailMan gets confused and loses track of number of responses to a message under

certain conditions during "conversation" with the user to establish from which response

the user wants to print.

Resolution: MailMan no longer loses track of number of responses.

NOIS KAN-0197-41499

Problem: MailMan doesn't lock the proper node when deleting a message from a basket.

Resolution: MailMan now locks the proper node.

NOIS LAS-0798-61037

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Problem: The Transmit TWIX option always selects the first transmission script, regardless of

script priority. Additionally, it ignores the "physical link" and "network address" fields in

the script and insists on getting those values from the domain record.

Resolution: The script selection now works the way it works for all other transmissions. The priority

field is checked, and the MAILMAN HOST and PHYSICAL LINK defined in the script are used. If those fields are not defined in the script, then the field values for the domain

are used.

NOIS MAD-1195-42253

Problem: Surrogate can't access confidential message, even though surrogate sent it for the user.

Resolution: Surrogate may now access confidential message if it was the surrogate who sent it.

NOIS MAD-0697-41762, REN-0995-61968

Problem: User is able to enter a blank message subject during message creation. MailMan aborts if

user enters a blank subject when sending an anonymous suggestion.

Resolution: MailMan will no longer abort. The message subject can no longer be blank. Leading and

trailing blanks are deleted. Any sequence of three or more blanks is reduced to two blanks. If a user enters a blank or null subject, the subject will default to "* No Subject *". When a message whose subject is "* No Subject *" is sent to a remote site, the subject transmitted (in the header record) is null. This is useful for sending a message to a list server (to join or drop a list, etc.) whose subject must be blank and whose text must

contain the command to the list server.

NOIS MCM-0696-51225

Problem: Message header during "backup" to view responses is not consistent.

Resolution: Message header display is now consistent.

NOIS MCM-0297-50914

Problem: When several messages are forwarded at the same time, the addressees are put into the

ADDRESSED TO multiple only for the first message, not the rest. (The addressees are put into the RECIPIENT multiple for all of the messages.) So, while "QD" shows the proper information for all the messages, "Q" shows the proper information only for the

first message.

Resolution: Problem corrected.

NOIS MCM-0297-51041

Problem: When a message is sent to a group with an "INFO:" prefix, that fact is preserved in the

RECIPIENT multiple, but not in the ADDRESSED TO multiple of the message.

Consequently, "Q" does not show that the group was addressed as "INFO:", while "QD"

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does.

Resolution: Problem fixed.

NOIS MCM-0297-52030

Problem: When a user sends a message to a group at a remote site and the group is for authorized

senders only, the message is not sent to the group (which is correct). However, the sender

is never notified, and the status of the message at the sending site indicates that the

message was delivered at the remote site.

Resolution: The sender is now notified, and the status indicates that the sender was not authorized to

send to the group.

NOIS MCM-0497-53082

Problem: "Help screen" for "Kpriority" toggle is missing.

Resolution: "Help screen" created.

NOIS MCM-0598-51973

Problem: The MailMan security manual lists the security keys: XMPRIORITY and

XMPRIORITY-OVERRIDE. Yet neither key is used in MailMan.

Resolution: Those keys are removed from the documentation.

NOIS NCH-0299-41111

Problem: When a user forwards a message to another user who has terminated from the message,

MailMan does not properly note who forwarded the message.

Resolution: It does now.

NOIS NYN-0399-10761

Problem: MailMan lets you add a terminated user to a mail group.

Resolution: Users must now have an access code and a mailbox in order to be added to a mail group.

NOIS OKL-1297-70995

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Problem: When a person has a forwarding address to a closed domain, MailMan will try to forward

messages to that domain, even though it is closed.

Resolution: MailMan will ignore forwarding addresses to closed domains.

NOIS PHO-0898-61407

Problem: Terminate a range of messages from the "WASTE" basket does not work.

Resolution: It does now.

NOIS SAJ-0498-72535

Problem: The bulletin API, 'XMB, kills a variable in use by the routine calling it, causing it to

abort.

Resolution: ^XMB now "news" all of the variables it uses.

NOIS TUC-0695-62074

Problem: When 'jumping to the network management menu, MailMan displays its intro text (hello,

you have new messages, etc.) twice, which is annoying.

Resolution: It will now be displayed only once.

NOIS TUC-0695-62146

Problem: When a user changes a banner, two bulletins are sent, which is annoying.

Resolution: Only one bulletin will be sent upon banner change.

NOIS TUC-0398-62045

Problem: When a user prints enough lines to P-MESSAGE, it can cause the volume set to fill up

and e-mail to come to a halt.

Resolution: A new field (#16.1, P-MESSAGE LINE LIMIT) in the MAILMAN SITE

PARAMETERS file will let site management limit the number of lines that can be

printed to P-MESSAGE.

NOIS WAS-1298-22733

Problem: It isn't clear in the documentation that a mail group with authorized senders cannot

receive mail from remote users.

Resolution: A warning is added to the description in the AUTHORIZED SENDER field in the MAIL

GROUP file (#3.8), that remote users are not able to send any mail to local groups with

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authorized senders.

NOIS WPB-1097-32056, ALX-0199-71509, DUB-0399-30192, PRO-0499-10520

Problem: In some situations, text from one bulletin is tacked on to text in the next bulletin.

Resolution: Problem fixed.

NOIS WPB-0698-30105

Problem: At the "message action// ignore" prompt, a "write" followed by a "copy" causes MailMan

to abort.

Resolution: Problem fixed.

NOIS WPB-0798-32507

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Problem: If a message is from a remote sender, and a response is sent using the function

\$\$ENT^XMA2R, the response should also be sent to the remote sender. It isn't.

Resolution: Problem fixed. Parameter added to specify whether to keep the reply local or to send

response to remote sender, too.

Patch XM*7.1*50 Description

Changes in Response to E3Rs

(Listed in numeric order)

E3R 1110

Request: Provide capability to create a message, send it now, and later it for me.

Resolution: At the "Send to" prompt, type "L:your name". The message will be sent to you right

away, but will also be "latered" for you at the date/time you specify.

E3R 1254

Request: Send bulletins to forwarding addresses.

Resolution: OK.

E3R 1837, E3R 7451

Request: Add capability to display messages in reverse arrival order.

Resolution: OK. User may specify preference (forward or reverse order) via a new field (#17,

MESSAGE ORDER) in the MAILBOX file (#3.7), accessible under the User Options

Edit option.

E3R 2323

Request: Include message numbers in search results.

Resolution: OK.

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E3R 3089, E3R 3923, E3R 6473

Request: Provide capability to create message now, but send it later.

Resolution: At the "Transmit Now" prompt, type "Later". You are asked what time to send it. A task

is created to send the message at the specified time. You are able to manipulate the task

using existing TaskMan options.

Request: Provide capability to create message now, but send to recipients at individually specified

times.

Resolution: At the "Send to" prompt, type "L:recipient". You are asked what time to send the

message to that recipient. When querying the message later, "Q" shows the later date that the message will be delivered to the recipient. "QD" does not show the recipient until

after the message has been delivered.

E3R 6524

Request: Provide capability to create message now, but queue delivery for later (to save me time).

Resolution: At the "Send to" prompt, type "L:G.group". You are asked what time to send the message

to the group. When querying the message later, "Q" shows the later date that the message will be delivered to the group. "QD" does not show the group members until after the message has been delivered. Also, if MailMan detects that you are sending a message to a large group, you'll be asked whether you'd like to queue delivery for a later date and time. A new field (#7.2, BIG GROUP SIZE) in the MAILMAN SITE PARAMETERS file

(#4.3) lets IRM define what "large" means.

E3R 6569

Request: Provide capability to "later" a group of messages.

Resolution: OK.

E3R 6986

Request: Display DUZ on user lookup, so that I can find out the user's DUZ, and use the DUZ,

instead of the name, when addressing future messages.

Resolution: OK. A new field (#7.3, SHOW DUZ WHEN ADDRESS MESSAGE) in the MAILMAN

SITE PARAMETERS file (#4.3) lets IRM decide whether the DUZ should be displayed.

E3R 7351

Request: Allow basket names to start with numbers.

Resolution: OK, but in order to pick basket by its IEN now, you must precede the IEN by accent

grave.

Request: Display mail baskets in alphabetic order.

Resolution: OK, but in order to pick a basket by its IEN now, you must precede the IEN by accent

grave.

E3R 7432

Reguest: Resolve disparity. Phone numbers and addresses are in both MailMan and NEW

PERSON files.

Resolution: Phone and address fields will be deleted from the MAILBOX file (#3.7). MailMan's User

Options Edit option will now edit phone and address fields in the NEW PERSON file (#200). However, since there may be *home* addresses in the address fields in the NEW PERSON file, a new field (#7.4, SHOW ADDRESS ON USER LOOKUP) has been added to the MAILMAN SITE PARAMETERS file (#4.3). It lets each site decide whether or not a user's address will be shown when someone does a user lookup.

E3R 7449, E3R 8501

Request: Don't wrap back to first message after last message is read. Or give better indication of

end of basket.

Resolution: OK. User will be prompted, "End reached. Begin again? NO//"

E3R 7822

Request: Allow the mail group Organizer the same edit capabilities as the Coordinator.

Resolution: OK.

E3R 8073

Request: Stay with current message upon up-arrow out of message "save".

Resolution: OK.

E3R 8204

Request: If delete message during creation, ask "Are you sure?"

Resolution: OK.

Request: During "Answer", let user edit original message.

Resolution: OK. "Answer" now copies the original message before the user is placed into the editor,

so the user is able to edit the copy of the original message while adding the answer.

E3R 8328

Request: Capture and display full Internet "from" address, including the clear-text name, when

supplied, on messages that come from remote Internet sites.

Resolution: OK. Previously, MailMan captured the envelope "from" address (MAIL FROM:<...>)

and put it in the FROM field (# 1). Now, MailMan puts the envelope "from" in a new field (#41, ENVELOPE FROM). The RFC 822 header "from" (FROM:<...>) is now captured for the first time and placed in field 1 "FROM". Responses will go to the "FROM" address. Errors noted during transit and delivery will go to the "ENVELOPE

FROM" address.

E3R 8395

Request: Enable a postmaster to set auto-vaporize dates on messages that s/he sends.

Resolution: OK. Anyone will be able to set auto-vaporize dates on messages s/he originates. When

the message is delivered to the user, the auto-vaporize date will be set into the basket's message record. The user will be able to alter/delete the auto-vaporize date for the message in his/her own basket. The auto-vaporize date will be included in messages sent

to remote sites.

E3R 8514

Request: Enable the sender of a new message to specify the basket to which a message should be

delivered.

Resolution: OK, the sender of a new message now has the capability to specify the basket to which

the message should be delivered for all recipients, even future recipients, should the message be forwarded. However, this will work only if the recipients have chosen to allow such target basket delivery. Otherwise, the message will be delivered as usual.

E3R 8560

Request: In user info, make mail groups listing pause and page, instead of scrolling by.

Resolution: OK.

Request: When looping through entries in a mailbox, show the subject and sender of the next

message, in addition to its message number.

Resolution: OK. User may specify preference via a new field (#6, SHOW MESSAGE PREVIEW) in

the MAILBOX file (#3.7), accessible under the User Options Edit option.

E3R 8988, E3R 10303

Request: Implement message filtering.

Resolution: OK. You'll be able to set up standing instructions, which specify into which baskets (even

the "WASTE" basket!) certain messages should be delivered. Filtering is based on any

combination of subject content, sender matching, and addressee matching.

E3R 9087

Request: Enable printing of a single response or selection of responses.

Resolution: OK. And you'll be able to copy selected responses, too.

E3R 9293, E3R 10333

Request: Enable message search by recipient.

Resolution: OK. Search will be on those addressees which appear during Q (not QD). In addition,

you'll be able to search on "message sent" date range and on message contents.

E3R 9630, E3R 9875

Request: Delete messages marked for automatic deletion when that date arrives. We shouldn't have

to run the "IN basket purge".

Resolution: OK. Deletion of such messages will occur daily, and will be handled by the same process

which "news" "latered" messages.

E3R 9687

Request: List responses in reverse order when requesting an index during backup.

Resolution: OK. Responses will be listed in the same order as your message order preference. (See

E3R 1837.)

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E3R 9937

Request: Add a field that allows bulletins to be predefined to be priority.

Resolution: OK. Field #12, "PRIORITY?," has been added to the BULLETIN file (#3.6).

E3R 10334

Request: Add basket to "later'd messages" report.

Resolution: OK.

E3R 10447

Request: Enable message numbers to be recycled, to avoid huge ones.

Resolution: OK. A new field (#17.1, MAX DIGITS FOR MESSAGE NUMBER) has been added to

File #4.3, to let each site decide how large the numbers may get before they recycle back and start again from 100000. (They start at 100000 to avoid any confusion between message numbers and message sequence numbers in baskets.) The purge routines (date purge and unreferenced messages purge) can therefore no longer operate on message number. Instead, they now operate off a new field (#31, LOCAL CREATE DATE) in File #3.9, and its "C" cross-reference. This field is set with the current date (no time) at the time a new message stub is created. (For locally created messages, this will usually, but not necessarily, be the same as the date sent. For incoming messages from remote sites, this acts as a "date-received" stamp.) The date purge routine is now much faster since it has an appropriate cross-reference to work with. Fields in Files #3.7 and #4.3,

which previously referred to message numbers, now refer to date:

File #3.7, MAILBOX:

Field No.	Previously	With Patch 50
3.7,1.2	MESSAGE @ REINSTATEMENT	DATE @ REINSTATEMENT

File #4.3, MAILMAN SITE PARAMETERS:

Field No.	Previously	With Patch 50
4.3,4.301	NO-PURGE MESSAGES BUFFER	NO-PURGE DAYS BUFFER
4.302,3	FIRST MESSAGE TO PROCESS	START PURGE DATE
4.302,4	LAST MESSAGE TO PROCESS	STOP PURGE DATE
4.302,8	LAST MESSAGE PROCESSED	LAST DATE PROCESSED
4.3,4.304	WEEKDAY MESSAGES TO PURGE	WEEKDAY DAYS TO PURGE

Request: When displaying the list of users whose identity a user may assume during surrogate

selection, show number of new messages, as well as the read/write privileges.

Resolution: OK.

E3R 10634

Request: Honor a user's message forwarding instructions when delivering broadcast messages.

Resolution: OK. With one exception: The daily Secretary's message on FORUM will *not* be

forwarded, because it is already sent to every site.

E3R 10807

Request: Make messages queued to P-MESSAGE appear new to the user when they are delivered.

Resolution: A new field (#16.3, P-MESSAGE FROM) in the MAILBOX file (#3.7), accessible under

the User Options Edit option, lets each user decide whether the default sender of any P-MESSAGE they originate will be the user or the POSTMASTER. Messages that appear to be from the POSTMASTER, instead of from the user, will appear new to the user. Any queued P-MESSAGE prints will be from the default sender identified by this field. Any interactive P-MESSAGE prints will ask the user from whom the P-MESSAGE should be.

E3R 10849

Request: Allow postmaster surrogates to delete confidential messages from remote transmission

baskets.

Resolution: OK.

Request: Let mail group coordinators edit member groups, too.

Resolution: OK.

E3R 11095

Request: Add "Quit" choice to "new mail" prompt.

Resolution: OK.

E3R 11430

Request: When a message is sent to a recipient's forwarding address, indicate that the recipient

forwarded the message, instead of by the sender or forwarder of the message.

Resolution: OK.

E3R 11602

Request: Display all 4 digits of the year in the "latered messages" report.

Resolution: OK.

E3R 11707

Request: When a user who does not possess the XUPROGMODE key prints a PackMan message,

print only the description.

Resolution: All users, regardless of keys, will be given a choice of what to print, with the default

being just the description.

E3R 11960

Request: Create a MailMan GUI front end.

Resolution: While MailMan will not create a GUI front end, it will facilitate it by providing

appropriate APIs so that others might. Using the APIs provided in this patch, Indianapolis

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has created a GUI front end and SAIC Corp. has created an Internet front end.

Changes in Response to Perceived Opportunities for Improvement

Code in all new routines in this patch has been written to:

- Use top-down, structured coding techniques
- Avoid "goto"
- Use meaningful variable names
- Document routines in-line
- "New" variables
- Put separate functions in separate routines
- Use VA FileMan to set fields that cause triggering or cause indices to be set

The user interface has been improved so that:

- User menus:
 - > are renamed to make them more user-friendly
 - > are rearranged to have the most-used items at top
 - > have synonyms only for the most popular options
- User choices at every prompt are more:
 - > apparent
 - > intuitive
 - > flexible
- ? and ?? elicit standard help, for the most part
- User help frames have been completely updated to reflect the user interface

There is a whole new full-screen message management environment. Users may choose to use the original (classic) reader or the new one, or both.

When a user replies to a message, the subject begins with "Re:", instead of "Reply to:". The user can choose to include previous responses in the reply, so that those responses can be more easily addressed. Replies are immediately attached to the original message (instead of waiting until reply delivery), so that "conversations" on the message are possible.

"Confirm receipt" is implemented over the network by adding to outgoing messages or accepting from incoming messages the popular, but unofficial, RFC 822 header: "Return-Receipt-To:"<message sender>. This sends a confirmation message to the message sender when the recipient has read the message.

The headers that Microsoft Exchange uses to designate priority and confidential messages are recognized and used, to some extent. (High priority is recognized. Confidential is recognized, but the degree of confidentiality is not.)

The global integrity checker (XMUT-CHKFILE) has been improved to recognize and correct more errors and to provide better error messages.

Local mail posting and delivery globals (^XMBPOST) and routines (^XMAD) have been changed to improve efficiency. Details of the new mechanisms can be found in the "New Management Features in MailMan V. 7.1 & XM*7.1*50" topic in the "Implementation and Maintenance" section of the *MailMan V. 7.1 and Patch XM*7.1*50 Technical Manual*.

Where possible, all interactions with the user have been changed to standard VA FileMan calls.

Retired APIs

The following APIs have been retired (superceded by others) and will no longer be supported:

\$\$CHECK^XMAREAD NO LONGER SUPPORTED. Use ^DIR instead.
 \$\$READ^XMAREAD NO LONGER SUPPORTED. Use ^DIR instead.
 \$\$ENT^XMDF NO LONGER SUPPORTED. Use ENT1^XMD.

• \$\$EN^XMGAPI1 NO LONGER SUPPORTED. Use INIT^XMVVITAE.

New APIs

Effective with MailMan V. 7.1 with Patch XM*7.1*50 new APIs have been created. These new APIs are similar to VA FileMan APIs, as a move toward a time when other front ends (such as GUI) can be written for MailMan. Where possible, existing MailMan code has been altered to use the new APIs.

User Setup (^XMVVITAE)

• INIT Initialize variables used throughout MailMan.

OTHER Change certain MailMan settings when the user becomes a surrogate.

• SELF Restore certain MailMan settings when the user becomes himself or herself

again, after having been a surrogate.

Message Actions (^XMXAPI)

• ANSRMSG Answer a message (Send a new message, with a copy of the original message

to the sender of the original message).

• DELMSG Delete messages from a basket

• FLTRMSG Filter messages in a basket.

• FWDMSG Forward messages from a basket.

• LATERMSG "Later" messages in a basket.

MOVEMSG Move messages (from one basket) to another basket.

PRTMSG Print messages.

• PUTSERV Put a message in a server basket.

• REPLYMSG Reply to message (Attach reply to original message).

• SENDBULL Send a bulletin (returns XMZ).

SENDMSG Send a message.

• TASKBULL Send a bulletin (quicker than SENDBULL, but does *not* return XMZ).

• TERMMSG Terminate messages, possibly from a basket.

• ZAPSERV Delete a message from a server basket.

Message Action Building Blocks (^XMXAPI)

• ADDRNSND Address and send a message (does *not* handle message body).

• CRE8XMZ Create a new message stub in the MESSAGE file (#3.9).

• TOWHOM Check one message addressee.

• VSUBJ Validate a subject.

Mailbox Actions (^XMXAPIB)

• CRE8MBOX Create a mailbox for a user.

• FLTRMBOX Filter all messages in a user's mailbox.

QMBOX Query a mailbox for new messages.

• TERMMBOX Remove all traces of a user from MailMan globals.

Basket Actions (^XMXAPIB)

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• CRE8BSKT Create a basket.

• DELBSKT Delete a user's basket.

• FLTRBSKT Filter messages in a basket.

• LISTBSKT Get a list of baskets in a mailbox.

• LISTMSGS Get a list of messages in one or all baskets in a mailbox. Search criteria can

be used.

• NAMEBSKT Change the name of a basket.

• QBSKT Get information on a basket.

RSEQBSKT Resequence messages in a basket.

Interactive User Options/Actions (^XM & ^XMXAPIU)

^XM

• EN Meant to be the entry action of the primary MailMan option. It sets up the user's MailMan environment and calls HEADER^XM to greet the user.

• CHECKIN Meant to be the entry action of any subordinate MailMan option.

• CHECKOUT Meant to be the exit action of every MailMan option.

• HEADER Meant to be part of the entry action of the primary MailMan option, whether

called by itself or as part of another call (e.g., EN^XM). It displays a greeting

to the user.

^XMXAPIU

READ Read/Manage messages in your mailbox.

• READNEW Read new messages in your mailbox.

SEND Send a message.

• TOWHOM Ask user for message addressees.

Message Editing Routines (^XMXEDIT)

The following ^XMXEDIT routines perform the actual message editing:

• CLOSED Toggle the message's "closed" flag.

• CONFID Toggle the message's "confidential" flag.

• CONFIRM Toggle the message's "confirm receipt requested" flag.

• DELIVER Set/Delete the message delivery basket for all users.

• INFO Toggle the message's "information only" flag.

• PRIORITY Toggle the message's "priority" flag.

• SUBJ Change the message subject.

• TEXT Replace the message text.

• VAPOR Set/Delete the message vaporize date.

Message Security and Restrictions Functions and Routines (^XMXSEC)

\$\$BCAST
 Returns whether a message was broadcast.

• \$\$CLOSED Returns whether a message is closed.

• \$\$CONFID Returns whether a message is confidential.

• \$\$CONFIRM Returns whether a message is confirm receipt requested.

• \$\$INFO Returns whether a message is information only.

•	\$\$ORIGIN8R	Returns whether the user (XMDUZ or DUZ) sent the message (sender or surrogate).
•	\$\$PRIORITY	Returns whether a message is priority.

• \$\$SURRCONF Returns whether a message is confidential, and if it is, whether the surrogate may access it.

• \$\$ZCLOSED Returns whether a message is closed.

• \$\$ZCONFID Returns whether a message is confidential.

• \$\$ZCONFIRM Returns whether a message is confirm receipt requested.

• \$\$ZINFO Returns whether a message is information only.

• \$\$ZORIGIN8 Returns whether the user (XMDUZ or DUZ) sent the message (sender or

surrogate).

• \$\$ZPOSTPRV Returns whether the user has Postmaster privileges, including whether the

user may perform group message actions in SHARED, MAIL.

• \$\$ZPRI Returns whether a message is priority.

The following ^XMXSEC functions set XMERR and ^TMP("XMERR",\$J), if access/permission is denied:

• \$\$ACCESS Returns whether the user may access a message.

• \$\$ANSWER Returns whether the user may answer a message.

• \$\$COPY Returns whether the user may copy a message.

• \$\$DELETE Returns whether the user may delete or terminate a message.

• \$\$FORWARD Returns whether the user may forward a message.

• \$\$LATER Returns whether the user may later a message.

• \$\$MOVE Returns whether the user may save or filter a message.

• \$\$POSTPRIV Returns whether the user has Postmaster privileges, including whether the

user may perform group message actions in SHARED, MAIL.

• \$\$READ Returns whether the user may read a message.

• \$\$REPLY Returns whether the user may reply to a message.

• \$\$RPRIV Returns whether the surrogate has READ privileges.

• \$\$RWPRIV Returns whether the surrogate has READ or WRITE privileges.

• \$\$SEND Returns whether the user may send a message.

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• \$\$SURRACC Returns whether the surrogate may access a message.

• \$\$WPRIV Returns whether the surrogate has WRITE privileges.

Message Security and Restrictions Functions and Routines—Continued (^XMXSEC1)

•	\$\$COPYLIMS	When copying a message,	this function returns the sites message	ge copy limits.
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- \$\$PAKMAN Returns whether a message is a PackMan message.
- CHKLINES Checks whether the message is too long to be sent to a remote site.
- GETRESTR Returns assorted restrictions, if any, on sending or forwarding the message.
- OPTGRP Determines what the user may do at the basket or message group level.

The following ^XMXSEC1 routine sets XMERR and ^TMP("XMERR",\$J), if access/permission is denied:

•	\$\$COPYAMT	When copying a message, this function checks the total number of lines and
		responses to be copied.

- \$\$COPYRECP When copying a message, this function checks the total number of recipients on the message to see if it's "OK" to list them in the copy text and also send the copy to them.
- CHKMSG Checks whether a message is located where the calling routine says it is and whether the user may access it.

Message Security and Restrictions Functions and Routines—Continued (^XMXSEC2)

- OPTEDIT If OPTMSG^XMXSEC2 determines that the user may edit the message, then this routine details what exactly the user may and may not edit.
- OPTMSG Determines what the user may do with the message.

The following ^XMXSEC2 function sets XMERR and ^TMP("XMERR",\$J), if permission is denied:

• \$\$EDIT Returns whether the user may edit a message.

Message and Mailbox Utility Functions and Routines (^XMXUTIL)

- \$\$BMSGCT Returns the number of messages in a user's basket.
- \$\$BNMSGCT Returns the number of new messages in a user's basket.
- \$\$BSKTNAME Returns the name of a user's basket.
- \$\$NAME Returns the name of the user by looking up XMDUZ in the NEW PERSON file (#200). Optionally, it may also return the user's title and/or institution.
- \$\$NETNAME Returns the network name of a user, including the @site name.
- \$\$NEWS
 Returns the information on new messages in a user's mailbox.
- \$\$TMSGCT Returns the total number of messages in a user's mailbox.
- \$\$TNMSGCT Returns the total number of new messages in a user's mailbox.

KVAPOR Sets/Removes a message vaporize date in a user's basket.

LASTACC Records that the user has read the message.

MAKENEW Makes a message new and updates the new message counts.

NONEW Makes a message *not* new and updates the new message counts.

PAGE Displays to the user: "Enter RETURN to continue or '^' to exit:" and waits

until the user presses a key.

Displays to the user: "Press RETURN to continue:" and waits until the user WAIT

presses a key.

Date and String Utility Functions and Routines (^XMXUTIL1)

\$\$CONVERT Given the Internet date/time string, it returns the VA FileMan date/time.

\$\$CTRL Strips the control characters from a string.

Change all ~U~ to ^ in a string. \$\$DECODEUP

\$\$ENCODEUP Change all ^ to ~U~ in a string.

\$\$GMTDIFF Given the time zone, it returns +-hhmm difference from Greenwich Mean

Time (GMT).

\$\$INDT Given the VA FileMan date/time, it returns the Internet date/time string: dd

mm yyy hh:mm:ss +-hhmm (time zone).

\$\$MAXBLANK Reduce all three or more consecutive blanks in a string to two.

\$\$MELD Combine a string and a number to form a new string of a given length.

Given the VA FileMan date/time, it returns the string: **dd mmm yy hh:mm**. \$\$MMDT

\$\$SCRUB Strips the control characters and leading/trailing blanks from a string.

\$\$STRIP Strips the leading/trailing blanks from a string.

\$\$TIMEDIFF Given the decimal time difference, it returns +-hhmm

(e.g. -2.5 equates to -0230).

\$\$TSTAMP Returns a timestamp (**\$H** expressed in seconds).

ZONEDIFF Given the time zone (or time difference +-hhmm from GMT), it returns the

number of hours and minutes difference between that and the local time

zone.

Message Information Functions and Routines (^XMXUTIL2)

• \$\$BSKT Returns in which basket a message is located for a user.

• \$\$DATE Returns the message sent date in external format:

DD MMM YY HHJ:MM

• \$\$FROM Returns the message from in external format.

• \$\$KSEQN Returns the sequence number for a message in this user's basket.

• \$\$LINE Returns the number of lines in the text of a message.

• \$\$NEW Returns whether the message is new for this user in this basket.

• \$\$PRI Returns whether the message is priority.

• \$\$QRESP Determines whether a message is a response or not.

• \$\$RESP Returns the number of responses to a message.

• \$\$SUBJ Returns the message subject in external format.

• \$\$ZDATE Returns the message sent date in external format:

DD MMM YY HHJ:MM

• \$\$ZFROM Returns the message from in external format.

• \$\$ZNODE Returns the message zero node: ^XMB(3.9,XMZ,0).

• \$\$ZPRI Returns whether the message is priority.

• \$\$ZREAD Returns the number of responses to a message this user has read.

• \$\$ZSUBJ Returns the message subject in external format.

• INMSG Message information.

• INMSG1 Message information, Part 1.

• INMSG2 Message information, Part 2.

INRESP Response information.

• INRESPS How many responses? What's the user read?

Message Information Routines (^XMXUTIL3)

• Q Lists/Finds message addressees.

• QD Lists/Finds message recipients.

• QL Lists/Finds "latered" message addressees.

QN Get the network header records from a message that originated at a remote

site.

Changes to MailMan Code

Move Existing Routines From the Reserved XMZ* Namespace

XMUTERM was XMZTERM (This patch deletes XMZTERM from your system.)
XMUTERM1 was XMZTERM1 (This patch deletes XMZTERM1 from your system.)

Change Existing Routines to Take Advantage of New Routines

XM redo

XMO obsolete. relevant code absorbed into ^XMXADDRD

XMA replace code in REC^XMA with call to MANAGE^XMJBM

XMA0 replace code in ENTPRT^XMA0 with call to PRINT^XMJMP

replace code in PR2^XMA0 with call to PRINTMSG^XMJMP

replace code in HDR^XMA0 with call to PRINTMSG^XMJMP

XMA01 obsolete

XMA02 obsolete

XMA03 replace code in \$\$REN^XMA03 with call to RSEQBSKT^XMXAPIB

XMA0A obsolete XMA1 obsolete XMA10 obsolete

XMA11 delete obsolete code

XMA11A replace code in WRITE^XMA11A with call to ANSWER^XMJMA or to

SEND^XMJMS

XMA11B obsolete XMA1A obsolete

XMA1B replace code in S2^xXMA1B with call to PUTMSG^xXMXMSGS

replace code in KL^XMA1B with call to ZAPIT^XMXMSGS

XMA1C replace code in SETSB^XMA1C with call to PUTSERV^XMXMSGS1

replace code in REMSBMSG^XMA1C with call to ZAPSERV^XMXMSGS1

XMA1E obsolete

XMA2 replace code in GET^XMA2 and XMZ^XMA2 with call to CRE8XMZ^XMXSEND

XMA20 obsolete

XMA21 replace code in CHK^XMA21

replace code in DES^XMA21 with call to TOWHOM^XMJMT

replace code in DEST^XMA21 with call to TOWHOM^XMJMT

replace code in INST^XMA21 with call to CHKADDR^XMXADDR

replace code in WHO^XMA21 with call to CHKADDR^XMXADDR

XMA210 obsolete

XMA21A obsolete

XMA21B obsolete

XMA21FWD obsolete

XMA21G obsolete

XMA22 obsolete

XMA24 obsolete

XMA25 obsolete

XMA2B call BLOB^XMJMS at entry BLOB

XMA2C obsolete

XMA2C0 obsolete

XMA2R replace code in \$\$ENT^XMA2R

replace code in \$\$ENTA^XMA2R

XMA3 replace call to KILL^XMA3 with KILLMSG^XMXUTIL

change to recognize new ^XMBPOST

XMA30 remove entry ENT

XMA32 replace call to ZIS^XMAH1 with ZIS^XM

XMA32A replace call to KL^XMA1B with ZAPIT^XMXMSGS

replace call to KILL^XMA3 with KILLMSG^XMXUTIL

XMA4 obsolete

XMA5 obsolete

XMA50 obsolete

XMA51 obsolete

XMA5A obsolete

XMA6 obsolete

XMA7 obsolete

XMA7G obsolete

XMA7G1 obsolete

XMAD0 obsolete

Patch XM*7.1*50 Description

XMAD1 obsolete XMAD1A obsolete XMAD1X obsolete

XMAD2 replace code in \$\$BSKT^XMAD2 with call to CRE8BSKT^XMXAPIB

XMADA obsolete XMADDOC obsolete

XMADDOC1 obsolete. relevant code absorbed into ^XMKPLQ

XMADDOC2 obsolete

XMADGO delete obsolete code

replace code in ZTSK^XMADGO with call to ZTSK^XMKPLQ

XMADGO1 obsolete
XMADJ999 obsolete
XMADJF0 obsolete
XMADJF1 obsolete
XMADJF1A obsolete
XMADJF1B obsolete

XMAH replace code in ENT8^XXMAH with call to HELPRESP^XXMJMP1

XMAH0 obsolete

XMAH1 replace code in ENTA^XMAH1 with call to REPLY^XMJMR

XMAI obsolete XMAI0 obsolete XMAI1 obsolete

XMAI2 redo (send message to users with too many messages)

XMAK obsolete
XMAL0 obsolete
XMAL0A obsolete
XMANON obsolete
XMAP obsolete
XMAP0 obsolete
XMAP1 obsolete

XMAPHOST redo (print to mail message: P-MESSAGE)

XMASEC obsolete. relevant code absorbed into ^XMPSEC

XMB replace code in ^XMB with call to TASKBULL^XMXBULL

replace code in EN^XMB with call to SEND^XMXBULL

replace call to TASKER^XMR with call to RECV^XMS3

XMB1 obsolete XMBGRP fix NOIS

XMBPOST change retry interval XMC call INIT^XMVVITAE

replace call to ENT1^XMR0 with call to ENT1^XMR

XMC1 replace call to ENT1^XMR0 with call to ENT1^XMR

XMC11 redo call to ^XMC11A

replace call to ENT1^XMR0 with call to ENT1^XMR

XMC11A replace call to ^XMAREAD with ^DIR

XMC2 replace call to TASKER^XMR with call to RECV^XMS3

replace call to BAT^XMR0 with call to BAT^XMR

XMC3 redo close channel code XMC4 delete obsolete code

replace call to ^XMAL0 with call to LIST^XMJML

XMCD replace call to ^XME1 with call to LOADCODE^XMJMCODE

XMCTLK replace call to KILL^XMA3 with KILLMSG^XMXUTIL

XMD replace code in ^XMD, ENL^XMD, ENT^XMD, ENT1^XMD, ENT2^XMD

XMDF replace code in \$\$ENT^XMDF

XMDIRQST replace call to ^XMAREAD with ^DIR

XMDIRRCV replace call to REMSBMSG^XMA1C with ZAPSERV^XMXMSGS1
XMDIRSND replace call to REMSBMSG^XMA1C with ZAPSERV^XMXMSGS1

replace call to \$\$ENTA^XMA2R with ANSERMSG^XMXANSER

XME obsolete. relevant code absorbed into ^XMJMCODE XME1 obsolete. relevant code absorbed into ^XMJMCODE

XMFAX don't show () if no institution

XMGAPI2 replace call to CONVERT^XMA32A with CONVERT^XMXUTIL1

XMGAPI3 redo (local broadcast of message from FORUM postmaster)

XMGAPI4 replace some code in \$\$NU^XMGAPI4

XMJMQ replace call to SUMMARY with call to DETAIL

XMJMO1 continuation of XMJMO

XMP identify subject for VA FileMan editor

Patch XM*7.1*50 Description

XMP2A replace call to ZIS^XMAH1 with ZIS^XM

XMP3 redo XMPC redo

XMPG redo entry point ENT to use ^XMXSEND

XMPH replace call to KILL^XMA3 with KILLMSG^XMXUTIL

replace calls to GETTIME^XMA2 & QUE^XMA02 with EN^XUTMDEVQ

XMPSEC replace call to ENX^XMD with SENDMSG^XMXSEND

XMR replace call to KL^XMA1B with ZAPIT^XMXMSGS

replace call to WHOXM^XMA21 with CHKADDR^XMXADDR

replace call to ENT1^XMR0 with call to ENT1^XMR

XMR0 obsolete. relevant code absorbed by ^XMR

XMR0A redo

XMR0B replace call to ^XMB with TASKBULL^XMXBULL

replace call to ^XMD with SENDMSG^XMXSEND

replace call to S2^XMA1B with PUTMSG^XMXMSGS

XMR0BLOB replace code in \$\$2005 with call to UPDATE^DIE

XMR1 redo XMR1A redo

XMR2 remove code for "LOCK" command

XMRENT redo

XMRMSM replace call to ENT^XMR0 with call to ENT^XMR

XMRONT replace call to ENT^XMR0 with call to ENT^XMR

XMRPCTS0 replace call to KL^XMA1B with ZAPIT^XMXMSGS

XMRPCTS1 replace call to KILL^XMA3 with KILLMSG^XMXUTIL

XMRPCTSA replace code with call to \$\$INDT^XMXUTIL1

XMRTCP replace call to ENT^XMR0 with call to ENT^XMR

XMRUCX replace call to ENT^XMR0 with call to ENT^XMR

XMS replace call to KL^XMA1B with ZAPIT^XMXMSGS

XMS0 replace call to KL^XMA1B with ZAPIT^XMXMSGS

redo calls to ^XMSM and ^XMSM1

XMS0A rewrite a section of code

replace call to USER^XMA with NAME^XMXUTIL

XMS0BLOB replace call to ^XMD with SENDMSG^XMXMSGS

XMS1 replace call to S2^XMA1B with PUTMSG^XMXMSGS

redo call to ^XMSM

XMS2 obsolete

XMS3 replace call to ENX^XMD with SENDMSG^XMXSEND

replace call to ENT1^XMR0 with call to ENT1^XMR

XMS4 use \$\$BMSGCT^XMXUTIL to get number of messages in basket

replace call to ENT^XMA30 with EN^XUTMDEVQ

XMS5 replace call to \$\$REN^XMA03 with RSEQ^XMXBSKT

use \$\$BMSGCT^XMXUTIL to get number of messages in basket

replace call to ENT^XMA30 with EN^XUTMDEVQ

XMS5A use \$\$BMSGCT^XMXUTIL to get number of messages in basket

XMSERR replace reference to XMFROM with XMNVFROM
XMSM replace code with calls to TASKBULL^XMXBULL

XMSM1 obsolete (absorbed by ^XMSM)

XMSMAIL redo call to ^XMSM

XMUT1 replace code with call to PUTMSG^XMXMSGS

replace call to ENT^XMA30 with EN^XUTMDEVQ

code for ENTM replaced by LISTMBOX^XMJBL

XMUT1A replace call to ENT^XMA30 with EN^XUTMDEVQ

XMUT2 redo
XMUT4 redo
XMUT4A redo
XMUT4B redo
XMUT4BA redo
XMUT4C redo

XMUT5 replace call to STATUS^XMADGO1 with STATUS^XMKPL

XMUT5B change to recognize new ^XMBPOST global
XMUT5Q change to recognize new ^XMBPOST global
XMUT6 change to recognize new ^XMBPOST global
XMUTPUR0 change to deal with new "AI" cross-reference

XMYMNEM replace call to GETTIME^XMA02 & ^%ZTLOAD with EN^XUTMDEVQ

XMYPOST2 redo (lets sites change their names)
XMYPRE change ^DOPT("XM" global

Rewrite Information Routines

XMH* routines for giving information

XMHIG give info on a group XMHIU give info on a user

Rewrite Interactive Interface Routines to Use APIs

XMJ* routines for interactive basket and message handling

XMJB* routines for interactive basket handling

XMJBL list contents of all baskets

XMJBM manage existing messages in basket

XMJBM1 continuation of XMJBM

XMJBN read new messages in basket

XMJBU basket utilities (select, rename)

XMJDIR customized ^DIR for "set of codes" reads

XMJERR display errors

XMJM* routines for interactive message handling

XMJMA answer messages

XMJMBULL send bulletin interactively

XMJMC copy messages

XMJMCODE en/decrypt messages

XMJMD later messages

XMJMF find messages based on search criteria

XMJMFA find messages in ^XMB(3.9

XMJMFB find messages in user's mailbox

XMJML list messages in basket (can't read them)

XMJMLN list and read new messages in one or all baskets

XMJMLR list and read messages in a basket

XMJMLR1 continuation of XMJMLR

XMJMOI options for individual message activities

XMJMOIE edit a message that the user has sent only to themselves

XMJMOR options for range-of-messages activities

XMJMORX options for range-of-messages activities for non-basket-specific lists

XMJMORX1 continuation of XMJMORX

XMJMP print, backup messages

XMJMP1 continuation of XMJMP

XMJMR send reply to message

XMJMRO options for replying to messages

XMJMS send new message

XMJMSA send anonymous message to the suggestion box

XMJMSO options for sending / answering messages

XMJMT send to whom?

Rewrite Message-Posting Routines

XMK* routines for posting messages

XMKP address and mail message

XMKPL make sure background filers are running

XMKPLQ put local messages in correct local delivery queues

XMKPO set up tasks for bulletin, server, device, and remote message delivery

Rewrite Message Delivery Routines

XMT* routines for delivering messages

XMTDF filter message

XMTDL deliver message, local (to user's mailbox)

XMTDL1 continuation of XMTDL XMTDL2 continuation of XMTDL

XMTDO deliver server and device messages

XMTDT deliver message later, auto-delete message, later message

Rewrite Utility Routines

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XMU* utility routines

XMUDNC Domain Name Change

XMUPIN MailMan identifies messages to delete during IN basket purge

Rewrite Vitae Routines

XMV* routines involving a user's identity

XMVGROUP create or join a mail group

XMVSURR become a surrogate

XMVVITA edit identity and preferences
XMVVITAE set up identity and preferences

Create APIs Routines

XMX* APIs

XMXADDR main address resolver

XMXADDR1 continuation of XMXADDR XMXADDR2 continuation of XMXADDR

XMXADDRD Domain Name Server XMXADDRG group name resolver XMXANSER answer a message

XMXAPI Message APIs

XMXAPIB Mailbox and basket APIs

XMXAPIU Interactive user APIs

XMXBSKT basket handling
XMXBULL send a bulletin
XMXEDIT edit a message

XMXLIST get list of messages

XMXLIST1 continuation of XMXLIST

XMXMBOX mailbox handling XMXMSGS message handling

XMXMSGS1 continuation of XMXMSGS XMXMSGS2 continuation of XMXMSGS

XMXPARM Message APIs parameter checking

XMXPARM1 continuation of XMXPARM

XMXPARMB Mailbox and basket APIs parameter checking

XMXPRT print messages
XMXREPLY reply to a message

XMXSEC find out if a user is authorized to access a message

XMXSEC1 continuation of XMXSEC

XMXSEC2 find out what a user may and may not do with a message

XMXSEND send a message

XMXTO address a message

XMXUTIL mailbox and message utilities used by other routines

XMXUTIL1 string and date manipulation utilities used by other routines

XMXUTIL2 message information utilities XMXUTIL3 message information utilities XMXUTIL4 continuation of XMXUTIL3

Add Pre- and Post- Installation Routines

XMYPOST9 post-installation routine

XMYPOSTA continuation of post-installation routine

XMYPRE2 pre-installation routine

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XMYPRE2A continuation of pre-installation routine XMYPRE2B continuation of pre-installation routine

Changes to MailMan Globals

All globals were reviewed/modified to:

- Eliminate redundant fields
- Verify all fields being used are also defined in VA FileMan
- Verify all fields defined in VA FileMan are used
- Verify all indices are defined in VA FileMan
- Use triggers, where appropriate
- Move triggers from inappropriate fields to appropriate ones
- Verify that all fields are properly named
- Verify that all fields are properly defined

^XMB(3.6, BULLETIN file

- Fields Added
 - 3.6,5 0;3 RETENTION DAYS
 - > to set vaporization date (not used)
 - 3.6,12 0;4 PRIORITY?
 - > should message be priority? (yes/no)

^XMB(3.7, MAILBOX file

- > file name changed
- **Fields Deleted** (18 month notification period waived by DBA)
 - 3.7,4.6 0;4 PHONE NUMBERS
 - ➤ duplicates ^VA(200
 - 3.7,4.7 3;0 ADDRESS
 - ➤ duplicates ^VA(200
 - 3.7,6 T;2 *LAST RESPONSE SEEN
 - > previously marked for deletion
 - 3.7,10 10;0 ALREADY SIGNED ON TO DEVICES
 - > multiple not used
 - 3.706,.01 0;1 ALREADY SIGN ON TO DEVICES
 - > not used

3.706,1 0;2**PRIORITY** > not used 3.7,20 .1;1 LAST SYSTEM SIGNON DATE/TIME > not used 3.7,21 .2:1 TERMINAL TYPE LAST USED > not used 3.701,3 0:3FIRST POTENTIAL EMPTY SLOT > no longer used 0:43.701,4 HIGHEST SLOT NUMBER > no longer used 3.701,5 0:5 NUMBER OF MESSAGES IN BASKET > no longer used 3.702,1 *RETRIEVAL KEYWORDS 1:1 > previously marked for deletion Fields Added 3.7.1.11 0:14LAST MESSAGE RECEIVED DATE/TIME > moved from "N0" cross-reference ^XMB(3.7,XMDUZ, "N0",0) 3.7,1.12 0;15 LAST NEW MESSAGE NOTIFY DATE/TIME > user's last new message notification 3.7.6 0:4SHOW MESSAGE PREVIEW > yes/no T:4 3.7,7.5 **BLOB MESSAGE** in use, but wasn't in DD (yes/no) 3.701,3 0;3 **DELIVERY BASKET?** accept target basket delivery? (yes/no) 3.702,7 0;7 DELETE DATE SET BY MAILMAN? during in-basket-purge 3.7,15 15;0 **FILTER** > message filters multiple 3.715,.01 0;1**FILTER** > filter name 3.715.1 0:2**ORDER** > filter checking order

3.715,2 0;3 **BASKET** basket to place message in 3.715,3 0;4 **STATUS** > on/off 3.715,4 0;5 SUBJECT CONTAINS > filter condition 3.715.5 0:6 **FROM** > filter condition 0:7 3.715,6 ADDRESSED TO > filter condition 3.7,16 16:1 FILTER MESSAGES? > yes/no 3.7,16.2 16;2 ACCEPT DELIVERY BASKET? yes/no/only if already exists/selected baskets only 3.7.16.3 16;3 P-MESSAGE FROM ➤ POSTMASTER/user 3.7.17 0:13 MESSAGE ORDER > indicates message order preference 0:16 MESSAGE READER 3.7.18 ➤ default message reader 3.7.19 0:17 MESSAGE READER PROMPT ask/don't ask which message reader **Fields Changed** 3.7,1 2;0 **BASKET** description changed 3.701,.01 0;1 **BASKET** definition changed > name may now start with number length may be 2-30 (was 3-30) chars description changed 3.701,2 0;2# NEW MESSAGES IN BASKET > name & definition changed length may be 1-5 (was 1-4) digits

3.7,1.2 0;7 DATE @ REINSTATEMENT > name, definition, & title changed description changed 3.7.2 0;2FORWARDING ADDRESS > title changed > input transform changed length may be 1-50 (was 1-45) chars help prompt changed description changed 3.7,2.1 0;8 LOCAL DELIVERY FLAG description changed 3.7,2.21 NS1;1 NETWORK SIGNATURE LINE 1 OF 3 description changed 3.7.3 L:1 LATEST MAILMAN ACCESS definition & description changed length may be 2-64 (was 2-20) chars 3.7.4 B:1 BANNER > "kill" bulletin cross-reference deleted 3.7.9 6000:1 **MAILMAN INSTITUTION** description changed 0:9 3.7.11 MESSAGE ACTION DEFAULT description changed 3.7,13 SHOW TITLES 0;10 description changed 3.7,14.1 0;12 PRIORITY RESPONSES PROMPT description changed 3.702,.01 1:0 **MESSAGE** DINUMed > unused "B" cross-reference deleted > "N" cross-reference moved to NEW FLAG > "N0" cross-reference moved to NEW FLAG trigger for MAILBOX INDEX added

3.702,2 0;2 MAILBOX INDEX > definition changed length may be 1-5 (was 1-4) digits description changed 3.702,3 0;3 **NEW FLAG** definition changed \triangleright set of codes (0/1) (was free text) > description changed > "N" cross-reference moved from .01 > "N0" cross-reference moved from .01 0:4LAST READ DATE/TIME 3.702,4 > name changed > technical description added 0:5 3.702.5 AUTOMATIC DELETE DATE ► help prompt changed 3.702.6 0:6 NETWORK PRIORITY TRANSMISSION? > name changed > definition changed help prompt changed description changed ➤ "AC" cross-reference changed

^XMB(3.73, MESSAGES TO BE NEW AT A LATER DATE file

• The whole file has been changed.

^XMB(3.8, MAIL GROUP file

• Fields Added

3.81,1 0;2 TYPE

> info/cc

3.811,1 0;2 TYPE

➤ info/cc

• Fields Changed

3.8,.01 0;1 NAME

> "LAYGO" node changed

3.81,.01 0;1 MEMBER

> title changed

► help prompt changed

description changed

> screen added

3.8,6 4;0 AUTHORIZED SENDER

description changed

3.802,.01 0;1 AUTHORIZED SENDER

description changed

3.8,12 6;0 MEMBERS – REMOTE

description changed

3.812,.01 0;1 REMOTE MEMBER

> name changed

> input transform changed

help prompt changed

description changed

^XMB(3.9, MESSAGE file

> screen changed

• **Fields Deleted** (18 month notification period waived by DBA)

3.9,1.9 4 LOCK

> not used

3.9.8.5 K SCRAMBLE KEY

➤ duplicated 1.85

Fields Moved

3.9,8.6 S;1 SURROGATE READER

> moved into RECIPIENT multiple

• Fields Added

3.9,1.6 0;6 **PURGE DATE** > date to purge message for all recipients IN:1 3.9,9.5 IN REPLY TO REMOTE MESSAGE ID in use, but not in DD S:1 SURROGATE READER 3.91,12 was 3.9,8.6 3.911,1 0;2TYPE OF RECIPIENT I:,CC: 3.9.14 7:0 LATER DELIVERY TO > "staggered delivery" multiple 0:1 3.914,.01 LATER DELIVERY TO > to whom text 3.914.1 0:2TYPE OF RECIPIENT ➤ I:. CC: 3.914.2 0:3 BY WHOM DUZ > who set up later delivery 3.914.3 0:4 BY WHOM TEXT ➤ who set up later delivery 3.914.4 0:5 DELIVERY DATE/TIME > when should message be delivered 3.9,21 .5;1 **DELIVERY BASKET** > recipient basket to deliver message to 3.9,31 .6;1 LOCAL CREATE DATE > date message was added to File #3.9 3.9,41 **ENVELOPE FROM** ➤ MAIL FROM: in message envelope of incoming network messages

• Fields Changed

3.9,.001 **NUMBER** > message number may be 1-15 digits 3.9,.01 0;1 **SUBJECT** > input transform changed output transform added description changed > technical description added 3.9,1 0;2**FROM** length may be 1-70 (was 1-20) chars description changed > technical description added ➤ "C" cross-reference removed 3.9,1.3 0:5 CONFIRMATION REQUESTED? > name made all caps 3.9.1.35 0:8 ORIGINAL MESSAGE description changed 3.9.1.4 0:3 SENT DATE/TIME > name changed > title changed > definition changed > exact date/time required > technical description added 3.9,1.7 0;7 MESSAGE TYPE > definition changed > free text code combinations description changed 3.9,1.8 0:10 SCRAMBLE HINT description changed K 3.9.1.85 SCRAMBLE KEY description changed

> technical description added

3.9,9 5:1 **INCOMING MESSAGE ID** length changed from 14 to 110 description changed ➤ "AI" cross-reference changed 3.91..01 0;1 **RECIPIENT** > definition changed length may be 1-85 (was 3-65) chars > technical description added 3.91,1 0;2 LAST RESPONSE READ definition changed > changed to response number (was pointer) description changed 3.91,2 LAST READ DATE/TIME 0;3 > name changed > input transform changed > full date/time is required 3.91,3 0:4 REMOTE MESSAGE ID > changed from numeric to free text ▶ field made longer description changed > technical description added 3.91,4 0:5 TRANSMISSION DATE/TIME > name changed > input transform changed > full date/time is required 3.91.8 F:1 FORWARDED BY definition changed length may be 1-110 (was 1-45) chars description changed 3.91,8.01 F;2 FORWARDED BY (XMDUZ) definition changed > pointer to 200 (was numeric)

3.91,8.5 C:1 COPIED DATE/TIME

> name changed

length shortened from 40 to 15 chars

description changed

3.91,9 0;8 NETWORK TRANSMISSION TIME

description changed

0:9 3.91,10 PRIORITY RESPONSES?

> name changed

0;10 3.91,11 FIRST READ DATE/TIME

> name changed

> input transform changed

> full date/time is required

^XMB(4.2, **DOMAIN file**

Fields Changed

4.2,.01 0;1**NAME**

description changed

> input transform changed

> technical description added

4.2.1 0:2 **FLAGS**

> input transform changed to force uppercase

➤ length shortened from 10 to 5

4.23,.01 0;1**SYNONYM**

> length increased from 30 to 64

> "C" cross-reference changed to MUMPS and cross-reference length increased from 30 to 64

^XMB(4.2997, **REMOTE USER DIRECTORY file**

Fields Changed

Revision Date: 01/13/05

4.2997,99 0;7 **NETWORK ADDRESS**

> made an identifier

^XMB(4.2999, MESSAGE STATISTICS file

• Fields Deleted

4.2999,17 0;7 TOTAL MESSAGES RECEIVED

duplicated 9

• Fields Added

4.29992,2 0;3 XMIT AUDIT ERROR

> error message if transmit fails

^XMB(1, MAILMAN SITE PARAMETERS file

- > file name changed
- > file description changed
- > application group changed to XM

• Fields Deleted (18 month notification period waived by DBA)

4.3,6 2;0 *POSTMASTER

> not used

4.32..01 0:1 *POSTMASTER

> not used

4.3,8 0;7 MCTS DEVICE

> not used

4.3,8.1 0;10 *NETWORK LOG DEVICE

> not used

4.3,8.5 0;11 VADATS NAME

> not used

4.3,9 0;8 AGENCY CODE

> previously moved to 8989.3,9

4.3,11 3;1 AUTO-GENERATE ACCESS CODES

> previously moved to 8989.3,11

4.3,12 3;2 USER CHARACTERISTICS TEMPLATE

> previously moved to 8989.3,12

4.3,13 3;3 *TASKMAN PRIORITY

previously marked for deletion

4.3,14 3;4	*TASKMAN PARTITION SIZE
previously marked for deletion	
4.3,15 3;5	*TASKMAN RETENTION TIME
previously marked for deletion	
4.3,16 3;6	*TASKMAN HANG BETWEEN JOBS
previously marked for deletion	
4.3,19 19;1	OPTION AUDIT
> previously moved to 8989.3,19	
4.3,19.1 19.1;0	OPTION TO AUDIT
> previously moved to 8989.3,19.1	
4.36,.01 0;1	OPTION TO AUDIT
previously moved to 8989.36,.01	
4.3,19.2 19.2;0	NAMESPACE TO AUDIT
> previously moved to 8989.3,19.2	
4.35,.01 0;1	NAMESPACE TO AUDIT
previously moved to 8989.35,.01	
4.3,19.3 19.3;0	USER TO AUDIT
> previously moved to 8989.3,19.3	
4.34,.01 0;1	USER TO AUDIT
previously moved to 8989.34,.01	
4.3,19.4 19;2	INITIATE AUDIT
previously moved to 8989.3,19.4	
4.3,19.5 19;3	TERMINATE AUDIT
previously moved to 8989.3,19.5	
4.3,20 .1;0	MAILMAN PURGE DATE
duplicated field 4.302	
4.3,21 NPI;E1	NEW PERSON IDENTIFIERS
> previously moved to 8989.3,21	
4.3,31.1 SPL;1	MAX SPOOL LINES PER USER
> previously moved to 8989.3,31.1	
4.3,31.2 SPL;2	MAX SPOOL DOCS PER USER
> previously moved to 8989.3,31.2	
4.3,31.3 SPL;3	MAX SPOOL DOC LIFE-SPAN
> previously moved to 8989.3,31.3	

4.3,32	ABPKG;0	ALPHA/BETA TEST PACKAGE
previously moved to 8989.3,32		
4.332,.01	0;1	ALPHA/BETA TEST PACKAGE
previously moved to 8989.332,.01		
4.332,.02	0;2	DATE LAST UPDATED
> previous	sly moved to 8989.332,.02	
4.332,.03	0;3	ADRESSEE FOR USAGE RPT
> previous	sly moved to 8989.332,.02	
4.332,.04	0;4	VERSION NUMBER
> previous	sly moved to 8989.332,.02	
4.332,1	1;0	PKG NAMESP OR PREFIX
> previous	sly moved to 8989.332,1	
4.3321,.01	0;1	PKG NAMESP OR PREFIX
> previous	sly moved to 8989.3321,.01	
4.3321,1	1;0	EXCL NAMESP OR PREFIX
> previous	sly moved to 8989.3321,1	
4.33211,.01	0;1	EXCL NAMESP OR PREFIX
> previous	sly moved to 8989.33211,.03	l
4.3,33	ABOPT;0	ALPHA,BETA TEST OPTION
> previous	sly moved to 8989.3,33	
4.333,.01	0;1	ALPHA,BETA TEST OPTION
previous	sly moved to 8989.333,.01	
4.333,.02	0;2	ACCESSES SINCE LAST UPDATE
previous	sly moved to 8989.333,.02	
4.3,41	4;0	VOLUME SET
previous	sly moved to 8989.3,41	
4.304,.01	0;1	VOLUME SET
previous	sly moved to 8989.304,.01	
4.304,1	0;2	*INHIBIT LOGON?
previous	sly marked for deletion	
4.304,2	0;3	MAX SIGNON ALLOWED
previously moved to 8989.304,2		
4.304,3	0;4	*REQUIRED VOLUME SET
> previous	sly marked for deletion	

4.304,4	0;5	*MANAGER UCI
previously marked for deletion		
4.304,5	UCI;0	*UCI
previously marked for deletion		
4.3045,.01	0;1	*UCI
> previo	ously marked for deletion	
4.3045,1	VOL;0	*LINKED VOLUME SET
> previo	ously marked for deletion	
4.30451,.01	0;1	*LINKED VOLUME SET
> previo	ously marked for deletion	
4.30451,1	0;2	*LINKED UCI
> previo	ously marked for deletion	
4.304,6	0;6	LOG SYSTEM RT?
> previo	ously moved to 8989.304,6	
4.304,7	0;7	*TASKMAN JOB LIMIT
> previo	ously marked for deletion	
4.304,8	0;8	*OUT OF SERVICE
previously marked for deletion		
4.304,9	0;9	*REPLACEMENT VOLUME SET
previously marked for deletion		
4.3,51	5;0	VAX CLUSTER NODE (inactive)
➤ not used		
4.351,.01	0;1	NODE NAME (inactive field)
➤ not used		
4.351,1	0;2	TASKMAN JOB LIMIT (inactive)
> not us	ed	
4.3,202	XUS;2	DEFAULT # OF ATTEMPTS
previously moved to 8989.3,202		
4.3,203	XUS;3	DEFAULT LOCKOUT TIME
> previously moved to 8989.3,203		
4.3,204	XUS;4	DEFAULT MULTIPLE SIGN-ON
previously moved to 8989.3,204		
4.3,205	XUS;5	ASK DEVICE TYPE AT SIGN-ON
> previo	ously moved to 8989.3,205	

4.3,206 XUS:6 **DEFAULT AUTO-MENU** > previously moved to 8989.3,206 4.3,209 XUS;9 **DEFAULT TYPE-AHEAD** > previously moved to 8989.3,209 4.3,210 XUS:10 DEFAULT TIMED-READ (SECS) > previously moved to 8989.3,210 4.3,211 **XUS:11** BYPASS DEVICE LOCK-OUT > previously moved to 8989.3,211 4.3,212 **XUS:12** *BYPASS SIGN-ON LOG previously marked for deletion 4.33;0 4.3,212.1 DEVICE TO AUDIT reviously moved to 8989.3,212.1 4.33,.01 0;1DEVICE TO AUDIT previously moved to 8989.33,.01 4.3.212.5 **XUS:14** FAIL ACC ATMPT AUDT > previously moved to 8989.3,212.5 4.3.213 **XUS:13 BRIEF SIGN-ON DISPLAY** > not used 4.3,214 **XUS:15** LIFETIME OF VERIFY CODE > previously moved to 8989.3,214 4.3.216 XUS;16 INTERACTIVE USER PRIORITY > previously moved to 8989.3,216 4.3.240 INTRO;16 **INTRO TEXT** > previously moved to 8989.3,240 4.3,300 XUCP:1 LOG RESOURCE USAGE? > previously moved to 8989.3,300 Fields Added 4.3,7.2 0;7**BIG GROUP SIZE** > size for possible later delivery 4.3,7.3 0;8 SHOW DUZ WHEN ADDRESS MESSAGE > yes/no 4.3,7.4 0;10 SHOW ADDRESS ON USER LOOKUP > yes/no

4.3,8.15 0;18 TCP/IP POLLER RUN FLAG > existing field, but not in ^DD 4.3,16.1 .16;1 P-MESSAGE LINE LIMIT ➤ limit lines printed to P-MESSAGE 4.3,17.1 .17;1 MAX DIGITS FOR MESSAGE NUMBER > limit message number size **Fields Changed** 4.3,.01 DOMAIN NAME 0;1description changed 4.3.1 0:2 TIME ZONE description changed > required field cross-reference ^XMB("TIMEDIFF") added 4.3.2 1:0 SUBORDINATE DOMAIN description changed 4.31,.01 0;1SUBORDINATE DOMAIN description changed 4.31,1 0;2DATE CHRISTENED description changed 4.31.2 0:3 CHRISTENED BY description changed 4.3.4.301 .14:1 NO-PURGE DAYS BUFFER > name, definition, & help changed description changed 4.3,4.302 .1:0 **PURGE AUDIT** > name changed > description changed 4.302,.01 0;1 **PURGE DATE** > name changed description changed 4.302,1 0;2 **REMAINING MESSAGES** > name changed description changed

4.302,2 0;3 **PURGED MESSAGES** description changed 4.302,3 0;4 START PURGE DATE > name, definition, & help changed description changed 4.302.4 0:5 STOP PURGE DATE > name, definition, & help changed description changed 4.302,5 0;6 **PURGE TYPE** > name changed > definition changed > help added description changed 4.302.6 0:7 PURGE MESSAGES OLDER THAN DATE description changed 4.302.7 0:8 LAST UPDATE description changed 0;9 4.302.8 LAST DATE PROCESSED > name, help changed definition changed description changed 4.3,4.304 NOTOPURGE;1 WEEKDAY DAYS TO PURGE > name, help changed > definition changed description changed 4.3.5.1 0:15 MESSAGE ACTION DEFAULT description changed 4.3,5.11 .11;1 **COPY LIMIT - RECIPIENTS** > name changed description changed 4.3,5.12 **COPY LIMIT - RESPONSES** .11;2 > name changed description changed

4.3,5.13 **COPY LIMIT – LINES** .11:3 > name changed description changed 4.3.7 0;6 REQUIRE INTRODUCTIONS? > name changed 0:12 4.3,7.5 CPU (UCI, VOL) FOR FILER TO RUN > name changed description changed 4.3,7.7999 FTP-NOTES;0 FTP NOTES description changed 4.3,8.13 7;1 STATS NORMALIZATION > name changed 4.3.8.14 XMUT2-LINES;1 LARGE MESSAGE REPORT LINES > name changed description changed 4.3.8.3 NETWORK-LIMIT:1 NETWORK - MAX LINES SEND > name changed description changed 4.3.8.31 NETWORK-LIMIT;2 NETWORK - MAX LINES RECEIVE > name changed description changed 4.3.10 0:9 **IN-BASKET-PURGE DAYS** > name changed description changed 4.3,10.01 .15;1 **IN-BASKET-PURGE TYPE** description changed > executable help deleted 0;16 4.3,10.2 BACKGROUND FILER RUN FLAG description changed 4.3,10.3 .13;1 BACKGROUND FILER RUN PRIORITY description changed

4.3,142 .14;2 NO-PURGE DAYS BUFFER (LOCAL)

- > name, help changed
- definition changed
- description changed

4.3,217 XUS;17 DEFAULT INSTITUTION

- ➤ help changed
- description changed
- > technical description added

4.3,241 6;1 BACKGROUND MESSAGE DELIVERERS

- > input transform changed
- description changed
- > help added
- > executable help changed

4.3,242 6;2 BACKGROUND RESPONSE DELIVERERS

- > input transform changed
- description changed
- ➤ help added
- > executable help changed

Changes to Bulletins

• Bulletins Renamed

XM SEND ERR RECIPIENT recipient problem (was XMUSERNO)

• Bulletins Changed

XMRDACK text altered

• Bulletins Added

XM FWD ADDRESS DELETE forwarding address deleted XM GROUP ERROR error in mail group

XM SEND ERR MSG message rejected by remote site

XM SEND ERR REMOTE MSG ID remote message id node not in message

XM SEND ERR SERVER MSG server message not found

Changes to Functions

^DD("FUNC", FUNCTION file

• Function Added

XM NEXT SEQUENCE NUMBER

computes next sequence number for MAILBOX INDEX

Revision Date: 01/13/05

Changes to Help Frames

^DIC(9.2, HELP FRAME file

• Help Frames Changed

XMHELP

XMHELP-MANUAL

XMPACKMAN

• Help Frames Deleted

XM-API-DISPLAYS-NUMBER

XM-API-FEATURES

XM-API-FORWARD-MESSAGE

XM-API-MAIL-GROUPS

XM-API-MESSAGE-QUERY

XM-API-REPLYING

XM-API-REQUESTING-INFORMATION

XM-CONTROLLED-PRIORITY-MAIL

XM-COORDINATORS

XM-INQUIRY

XM-INTERNAL-MESSAGE-NUMBER

XM-LOCAL-RESPONSES

XM-NEW-FEATURES

XM-NEW-FEATURES-7.0

XM-NEW-MAIL-LIST

XM-NEW-VERSION3.1FEATURES

XM-OUTPUT

XM-P-MESSAGE

XM-Q-DELETE

XM-Q-DISAPPEARED

XM-Q-INTERRUPT

XM-Q-LOOKUP

XM-Q-RECAL

XM-Q-REMOVE

XM-Q-REPLIES

XM-QUESTIONS

XM-SENDER-INFORMATION-ONLY

XM-SUGGESTION

XMANSWER

XMEDIT

XMGROUPMEMBER

XMHELP2

XMJOIN

XMMAILGROUP

XMMG-TYPE

XMNEW

XMPACK-COMP

XMPACK-ENHANCED

XMPACK-GLO XMPACK-INSTALL

XMPACK-PACKAGE

XMPACK-PRNT

XMPACK-ROU

XMPACK-SUM

XMR-ACT-BACK

XMR-ACT-COPY

XMR-ACT-COPYA

XMR-ACT-COPYB

XMR-ACT-COPYC

XMR-ACT-COPYD

XMR-ACT-DELETE

XMR-ACT-E-SELECT

XMR-ACT-EDIT

XMR-ACT-EDIT2

XMR-ACT-EDIT3

XMR-ACT-FORWARD

XMR-ACT-NEW

XMR-ACT-NEW LATER (TICKLER)

XMR-ACT-PRINT

XMR-ACT-QUERY

XMR-ACT-REPLY

XMR-ACT-SAVE

XMR-ACT-TERM

XMR-ACT-VAPORIZE

XMR-ACT-WRITE

XMR-ACTION

XMR-ACTION-PRINT-W/O-HEADER

XMR-ACTION-PRIORITY-TOGGLE

XMR-ACTION-VAPORIZE

XMR-ACTION2

XMR-BASKET

XMR-MESS-HEADER

XMR-MESS-KEYWORD

XMR-MESS-RANGE

XMR-MESSAGE

XMR-RES

XMR-SEARCH

XMREAD

XMS-ADDRESS-CC

XMS-ADDRESS-INFO

XMS-ADDRESS-THRU

XMS-PRIORITY

XMS-RECIP-CONFIDENT

XMS-RECIPIENT

XMS-TEXT

XMS-TRANS

XMS-TRANS-CONFIRM

XMS-TRANS-EDIT

XMS-TRANS-SCR-HINT

XMS-TRANS-SCR-PASS

XMS-TRANS-SCRAMBLE

XMSEND

XMSHARE

XMUOPT-ASKBASKET

XMUOPT-BANNER

XMUOPT-BML

XMUOPT-INTRO

XMUOPT-SUR-ASSIGN

XMUOPT-SUR-ASSUME

XMUOPT-SURROGATE

XMUSEROPT

• Help Frames Added

New MailMan Help Frame Naming Conventions:

XM-I- IRM-related

XM-I-S- Site Parameters

XM-U- User-related

Patch XM*7.1*50 Description

XM-U-A- Address

XM-U-B- Basket

XM-U-BO- Basket Options

XM-U-H- Help

XM-U-I- Information

XM-U-K- KIDS/PackMan

XM-U-M- Message

XM-U-MO- Message Options

XM-U-P- Preferences

XM-U-Q- Query (Search)

XM-U-R Read

XM-I-S-BIG GROUP SIZE

XM-I-S-MAX DIGITS FOR MSG NUM

XM-I-S-MESSAGE LINE LIMIT

XM-I-S-SITE PARAMETERS

XM-U-A-ADDRESS

XM-U-A-CC

XM-U-A-GROUP LARGE

XM-U-A-GROUP LARGE-2

XM-U-A-INFO ONLY

XM-U-A-LOCAL USER NAME

XM-U-A-LOCAL USER NAME-2

XM-U-A-STAGGER DELIVERY

XM-U-A-STAGGER DELIVERY-2

XM-U-B-BASKET CONTENTS LIST

XM-U-B-BASKET NAME

XM-U-B-BASKET NAME CHANGE

XM-U-B-BASKET SELECT

XM-U-B-CHANGE DETAIL

XM-U-B-FILTER

XM-U-B-NAVIGATE CLASSIC

XM-U-B-NAVIGATE FULL SCREEN

XM-U-B-NEW MAIL LIST

XM-U-B-OPPOSITE TOGGLE

XM-U-B-READER

XM-U-B-READER CLASSIC

XM-U-B-READER DETAILED

XM-U-B-READER DETAILED LIST

XM-U-B-READER DIFF

XM-U-B-READER DIFF-2

XM-U-B-READER DIFF-3

XM-U-B-READER FULL SCREEN

XM-U-B-READER SUMMARY

XM-U-B-RESEQUENCE MESSAGES

XM-U-B-XMIT PRIORITY TOGGLE

XM-U-B-XMIT PRIORITY TOGGLE-2

XM-U-B-ZOOM TOGGLE

XM-U-BO-CLASSIC

XM-U-BO-CLASSIC-2

XM-U-BO-FULL SCREEN

XM-U-BO-FULL SCREEN LIST

XM-U-BO-FULL SCREEN-2

XM-U-H-GROUP

XM-U-H-GROUP-2

XM-U-H-GROUP-3

XM-U-H-GROUP-4

XM-U-H-Q DELETE

XM-U-H-Q DISAPPEARED

XM-U-H-Q INTERRUPT

XM-U-H-Q LOOKUP

XM-U-H-Q RECALL

XM-U-H-Q REMOVE

XM-U-H-Q REPLIES

XM-U-H-QUESTIONS

XM-U-H-USER

XM-U-I-EDITOR FM LINE

XM-U-I-EDITOR FM SCREEN

XM-U-I-GROUP

XM-U-I-GROUP COORDINATOR

XM-U-I-GROUP MEMBER

XM-U-I-GROUP-2

XM-U-I-SHARED MAIL

XM-U-I-SURROGATE

XM-U-I-SURROGATE BECOME

XM-U-I-SURROGATE-2

XM-U-I-SURROGATE-3

XM-U-I-SURROGATE-4

XM-U-K-PACKMAN COMPARE

XM-U-K-PACKMAN INSTALL

XM-U-K-PACKMAN LOAD GLOBALS

XM-U-K-PACKMAN LOAD PACKAGE

XM-U-K-PACKMAN LOAD ROUTINES

XM-U-K-PACKMAN PRINT

XM-U-K-PACKMAN SUMMARIZE

XM-U-M-ANSWER

XM-U-M-BACKUP

XM-U-M-BACKUP BEFORE SENDING

XM-U-M-CHOOSE RANGE

XM-U-M-CHOOSE RESPONSES

XM-U-M-CHOOSE SELECT

XM-U-M-CHOOSE SELECT-2

XM-U-M-CLOSED

XM-U-M-CONFIDENTIAL

XM-U-M-CONFIRM RECEIPT

XM-U-M-COPY

- XM-U-M-COPY-2
- XM-U-M-DELETE
- XM-U-M-DELETE-2
- XM-U-M-DELETE-3
- XM-U-M-DELIVERY BASKET SET
- XM-U-M-EDIT RECIPIENTS
- XM-U-M-EDIT SUBJECT
- XM-U-M-EDIT TEXT
- XM-U-M-FORWARD
- XM-U-M-FORWARD-2
- XM-U-M-INFO ONLY
- XM-U-M-LATER
- XM-U-M-LATER-2
- XM-U-M-LATER-3
- XM-U-M-LATERED MESSAGE CHANGE
- XM-U-M-LATERED MESSAGE REPORT
- XM-U-M-MESSAGE HEADER
- XM-U-M-NEW
- XM-U-M-PRINT
- XM-U-M-PRINT DEVICE P-MESSAGE
- XM-U-M-PRINT HEADER
- XM-U-M-PRINT NO HEADER
- XM-U-M-PRINT NO HEADER-2
- XM-U-M-PRINT NO HEADER-3
- XM-U-M-PRINT-2
- XM-U-M-PRIORITY SEND
- XM-U-M-PRIORITY TOGGLE
- XM-U-M-QUERY
- XM-U-M-QUERY DETAILED
- XM-U-M-QUERY GENERAL
- XM-U-M-QUERY INFO BASIC
- XM-U-M-QUERY INFO LOCAL
- XM-U-M-QUERY INFO REMOTE
- XM-U-M-QUERY NETWORK
- XM-U-M-QUERY NETWORK-2
- XM-U-M-QUERY SPECIFIC
- XM-U-M-QUERY-2
- XM-U-M-REPLY
- XM-U-M-REPLY-2
- XM-U-M-SAVE
- XM-U-M-SCRAMBLE
- XM-U-M-SCRAMBLE HINT
- XM-U-M-SCRAMBLE PASSWORD
- XM-U-M-SEND
- XM-U-M-TERMINATE
- XM-U-M-TERMINATE-2
- XM-U-M-TRANSMIT LATER
- XM-U-M-TRANSMIT NOW
- XM-U-M-VAPORIZE DATE EDIT
- XM-U-M-VAPORIZE DATE SEND

- XM-U-M-WRITE
- XM-U-M-WRITE-2
- XM-U-MO-EDIT
- XM-U-MO-READ
- XM-U-MO-READ-2
- XM-U-MO-REPLY
- XM-U-MO-SEND
- XM-U-MO-SEND-2
- XM-U-NEW FEATURES
- XM-U-NEW FEATURES-2
- XM-U-NEW FEATURES-3
- XM-U-NEW FEATURES-4
- XM-U-NEW FEATURES-5
- XM-U-P-ASK BASKET
- XM-U-P-BANNER
- XM-U-P-DELIVERY BASKET PRIV
- XM-U-P-EDITOR
- XM-U-P-FILTER
- XM-U-P-FILTER CRITERIA
- XM-U-P-FILTER CRITERIA-2
- XM-U-P-FILTER ORDER
- XM-U-P-FILTER-2
- XM-U-P-FILTER-3
- XM-U-P-FORWARDING ADDRESS
- XM-U-P-GROUP ENROLL
- XM-U-P-GROUP ENROLL-2
- XM-U-P-GROUP PERSONAL
- XM-U-P-GROUP PERSONAL-2
- XM-U-P-INSTITUTION
- XM-U-P-INTRODUCTION
- XM-U-P-MESSAGE ACTION DEFAULT
- XM-U-P-MESSAGE ORDER
- XM-U-P-NETWORK SIGNATURE
- XM-U-P-OFFICE INFO
- XM-U-P-OPTIONS
- XM-U-P-OPTIONS-2
- XM-U-P-OPTIONS-3
- XM-U-P-PERSONAL PREFERENCES
- XM-U-P-P-MESSAGE FROM
- XM-U-P-PRIORITY FLAG
- XM-U-P-PRIORITY PROMPT
- XM-U-P-PRIORITY PROMPT-2
- XM-U-P-READER DEFAULT
- XM-U-P-READER PROMPT
- XM-U-P-SHOW MESSAGE PREVIEW
- **XM-U-P-SHOW TITLES**
- XM-U-P-SURROGATE EDIT
- XM-U-P-SURROGATE READ PRIV
- XM-U-P-SURROGATE WRITE PRIV
- XM-U-Q-CLASSIC LOOKUP?

Patch XM*7.1*50 Description

XM-U-Q-CLASSIC LOOKUP ??

XM-U-Q-REMOTE USER NAME

XM-U-Q-SEARCH

XM-U-Q-SEARCH CRITERIA

XM-U-Q-SEARCH CRITERIA-2

XM-U-Q-SEARCH CRITERIA-3

XM-U-Q-SEARCH CRITERIA-4

XM-U-Q-SEARCH MAILBOX XM-U-Q-SEARCH SYSTEM

XM-U-R-NEW LIST ALL

XM-U-R-NEW LIST BASKETS

XM-U-R-NEW LIST PRIORITY

XM-U-R-NEW PRINT

XM-U-R-NEW READ

XM-U-R-NEW SCAN

XM-U-R-READ

XM-U-R-READ NEW

XM-U-R-READ NEW-2

XM-U-R-READ-2

XM-U-R-READ-3

Changes to Options

^DIC(19, OPTION file

• Options Deleted

XMDIE SERVER obsolete
XMQDELETE obsolete
XMVSET obsolete
XMVTEST obsolete

Options Added

XM DELIVERY BASKET EDIT BASKET^XMVVITA accept message delivery baskets XM FILTER EDIT FILTER^XMVVITA add/edit message filters (added to

option XMOTHER)

edit surrogate list

XM PERSONAL MENU

menu

XMEDITSURR SURR^XMVVITA

• Options Changed

XMBLOBSEND

XM-NEW-FEATURES help frame with new features

documentation

XMASSUME ASSUME^XMVSURR become someone's surrogate

XMBANNER BANNER^XMVVITA edit your banner

XMBASKLIST LISTMBOX^XMJBL list contents of all baskets

placed out of order – Imaging

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edit personal mail group

enroll in a mail group

package no longer uses MailMan
XMEDITFWD FORWARD^XMVVITA edit your forwarding address

XMEDITPERSGROUP PERSONAL^XMVGROUP

XMEDITUSER EDIT^XMVVITA edit personal preferences

XMENROLL ENROLL^XMVGROUP

XMHELP help menu (rearranged)
XMHELP-ON-LINE manual for mailman users

USER_MANUAL

BACKGROUND-FILER

XMHELPALL general mailman information XMHELPGROUP HELP^XMHIG view group information

XMHELPLNK L^XMJMT access remote user directory

XMHELPQUEST FAQ for MailMan
XMHELPUSER HELP^XMHIU view user information

XMHELPUSER HELP^XMHIU view user information
XMKSP edit site parameters (added fields

142, 143)

XMLATER-EDIT EDIT^XMJMD change/delete later'd message

times

XMLATER-REPORT REPORT'XMJMD report on later'd message times

XMMGR manage mailman main menu

XMMGR-CHECK- CHECK^XMUT5 check background filer

ask users with many messages to XMMGR-DISK-MANY-ENTER^XMAI2 do maintenance **MESSAGE-MAINT** XMMGR-IN-BASKET-PURGE **ENTER^XMUPIN** mark for purging messages not recently accessed report on users with large XMMGR-LARGE-MESSAGE-ENTER^XMUT2 **REPORT** messages mail group coordinator edit XMMGR-MAIL-GRP-COORD-RCOORD^XMVGROUP W/REMOTES XMMGR-MAIL-GRP-LCOORD^XMVGROUP mail group coordinator edit **COORDINATOR** XMMGR-NEW-MAIL-BOX NEWMBOX^XM create a new mailbox for a user select a message to purge XMMGR-PURGE-MESSAGE MESSAGE^XMUTERM start background filer XMMGR-START-START^XMKPL **BACKGROUND-FILER** XMMGR-STOP-STOP^XMKPL stop background filer **BACKGROUND-FILER** XMMGR-TERMINATE-MANY ALL1^XMUTERM delete multiple qualifying mailboxes automatically XMMGR-TERMINATE-ONE CHOOSE^XMUTERM select qualifying mailbox to delete suggest mailboxes for deletion XMMGR-TERMINATE-ALL2^XMUTERM **SUGGEST XMNET** network management menu **XMNEW** NEW^XMJBN read new messages and responses other menu (rearranged) **XMOTHER** load a packman message **XMPACK** PAKMAN^XMJMS manually send a bulletin **XMPOST BULLETIN^XMJMBULL** broadcast message VA-wide to XMR-BROADCAST-VA-WIDE ENT^XMGAPI3 SHARED.MAIL XMR-SEQ-RECEIVE BAT^XMR receive sequential media messages **XMREAD** MANAGE^XMJBM manage messages XMS-SEQ-TRANSMIT BAT^XMS transmit sequential media messages message search XMSEARCH FIND^XMJMF **XMSEND** SEND^XMJMS send a message become "SHARED, MAIL" **XMSHARE** SHARE^XMVSURR surrogate send anonymous message to **XMSUGGESTION** SEND^XMJMSA SHARED, MAIL's suggestion box **XMUSER** main menu (rearranged) check integrity of, and repair CHKFILES^XMUT4 XMUT-CHKFIL globals deliver found messages into XMUT-REC-DELIVER G^XMUT1 user's "IN" basket XMYB-BROADCAST-VA-ENT^XMGAPI3 broadcast message VA-wide to

WIDE

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all users

• User Menu Structure Changed

XMUSER MailMan Menu

XMNEW NML New Messages and Responses
XMREAD RML Read/Manage Messages

XMSEND SML Send a Message

XMSEARCH Query/Search for Messages

XMASSUME Become a Surrogate (SHARED,MAIL or Other)

XM PERSONAL MENU Personal Preferences

XMEDITUSER User Options Edit
XMBANNER Banner Edit
XMEDITSURR Surrogate Edit
XM FILTER EDIT Message Filter Edit

XM DELIVERY BASKET EDIT Delivery Basket Edit

XMENROLL Enroll in (Disenroll from) Mail Group

XMEDITPERSGROUP Personal Mail Group Edit XMEDITFWD Forwarding Address Edit

XMOTHER Other MailMan Functions

XMLATER-REPORT Report on Later'd Messages
XMLATER-EDIT Change/Delete Later'd Messages

XMBASKLIST Mailbox Contents List XMPACK LML Load PackMan Message

XMTALK TalkMan

XMHELPUSER
XMHELPUSER
User Information
XMHELPGROUP
Group Information
XMHELPLNK
Remote User Information
XM-NEW-FEATURES
New Features in MailMan
XMHELPALL
General MailMan Information

XMHELPQUEST Questions and Answers on MailMan

XMHELP-ON-LINE-USER_MANUAL Manual for MailMan Users